ELSEVIER

Toxicology 139 (1999) 283–284

TOXICOLOGY

www.elsevier.com/locate/toxicol

Contents of volume 139

Toxicologic evaluation of flavor ingredients added to cigarette tobacco: skin painting bioassay of cigarette smoke condensate in SENCAR mice
Addition of flavoring agents did not affect the promoting ability of tobacco smoke condensates
C.L. Gaworski, J.D. Heck, M.B. Bennett, M.L. Wenk (USA) 1–17

Manipulation of the L-arginine-nitric oxide pathway in airway inflammation induced by diesel exhaust particles in mice
NO produced from inducible NO synthase may be involved in lung damage cause by diesel exhaust particles
H. Takano, H.-B. Lim, Y. Miyabara, T. Ichinose, T. Yoshikawa, M. Sagai (Japan, South Korea) 19–26

Methyl iodide toxicity in rat cerebellar granule cells in vitro: the role of glutathione
Depletion of intracellular GSH is connected with cytotoxicity
M.P. Chamberlain, N.C. Sturgess, E.A. Lock, C.J. Reed (UK) 27–37

Sulphur mustard induced DNA damage in mice after dermal and inhalation exposure
Single exposure leads to DNA breakage in various organs
P.V. Lakshmana Rao, R. Vijayaraghavan, A.S.B. Bhaskar (India) 39–51

Molecular modelling of CYP1 family enzymes CYP1A1, CYP1A2, CYP1A6 and CYP1B1 based on sequence homology with CYP102
A computational approach and review of active site-catalysed xenobiotic oxidation
D.F.V. Lewis, B.G. Lake, S.G. George, M. Dickins, P.J. Eddershaw, M.H. Tarbit, A.P. Beresford, P.S. Goldfarb, F.P. Guengerich (UK, USA) 53–79

Inhibitory effects of melatonin on ferric nitrilotriacetate-induced lipid peroxidation and oxidative DNA damage in the rat kidney
Melatonin protects as a scavenger of free radicals and as an antioxidant
W. Qi, R.J. Reiter, D.X. Tan, L.C. Manchester, S.J. Kim, J.J. Garcia (USA) 81–91

Hydrogen peroxide induces premature acrosome reaction in rat sperm and reduces their penetration of the zona pellucida
Reactive oxygen species many influence the sperm-oocyte copulation
P.-C. Hsu, C.-C. Hsu, Y.L. Guo (Taiwan) 93–101

DT-diaphorase protects against menadione-induced oxidative stress
In embryonic carcinoma cells in culture resistant cells have higher levels of the enzyme
T.-J. Chiou, Y.-T. Wang, W.-F. Tzeng (Taiwan, ROC) 103–110

Dapsone prevents morphological lesions and lipid peroxidation induced by quinolinic acid in rat corpus striatum
A dose of 12.5 mg/kg of Dapsone was found to be most effective
E. Rodríguez, M. Méndez-Armenta, J. Villeda-Hernández, S. Galván-Arzate, R. Barroso-Moguel, F. Rodríguez, C. Ríos, A. Santamaría (Mexico) 111–118

Differential protooncogene expression in Sprague Dawley and Fischer 344 rats during 1,2-dichlorobenzene-induced hepatocellular regeneration
In both strains protooncogene expression is concordant with liver regeneration
S.G. Kulkarni, A.J. Harris, D.A. Casciano, H.M. Mehendale (USA) 119–127

Distribution and retention of mercury in metallothionein-null mice after exposure to mercury vapor
Metallothionein plays in important role in thew retention of mercury in lung, kidney and liver and also in brain
M. Yoshida, M. Satoh, A. Yasutake, A. Shimada, Y. Sumi, C. Tohyama (Japan) 129–136

Polychlorinated biphenyl mixtures (Aroclors) inhibit LPS-induced murine splenocyte proliferation in vitro
Mixtures of PCBs and/or non-planar congener class may be more immunotoxic than individual planar congeners
A. Schulze Stack, S. Altman-Hamamdzic, P.J. Morris, S.D. London, L. London (USA) 137–154
Carbonyl reduction of the tobacco-specific nitrosamine 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK) in cytosol of mouse liver and lung
NNAL formation by a carbonyl reductase in cytosol is important in NNK metabolism
A. Atalla, E. Maser (Germany) 155–166
Biphasic effect of cadmium in non-cytotoxic conditions on the secretion of nitric oxide from peritoneal macrophages
NO production and lipid peroxidation in murin peritoneal macrophages increased following cadmium incubation
D.C. Ramirez, L.D. Martinez, E. Marchevsky, M.S. Gimenez (Argentina) 167–177

Toxicology Contents Alert 179–187
Instructions to Authors 189–190

Toluene inhalation induced epididymal sperm dysfunction in rats
Sperm maturation in the epididymis is disrupted
A. Ono, K. Kawashima, K. Sekita, A. Hirose, Y. Ogawa, M. Saito, K. Naito, K. Yasuhara, T. Kaneko, T. Furuya, T. Inoue, Y. Kurokawa (Japan) 193–205
Species comparison of hepatic and pulmonary metabolism of benzene
A comparison of pulmonary and hepatic metabolism in man, mouse, rat and rabbit
M.W. Powley, G.P. Carlson (USA) 207–217
Effects of some probable antioxidants on selenite-induced cataract formation and oxidative stress-related parameters in rats
Several antioxidative and flavonoid-containing compounds reduce cataract frequency
H. Orhan, S. Marol, İ.F. Hepşen, G. Şahin (Turkey) 219–232
Protection of mice against soman by pretreatment with eptastigmine and physostigmine
Eptastigmine is superior in protecting mice
K. Tuovinen, O. Hänninen (Finland) 233–241
Effects of phenolic antioxidants and flavonoids on DNA synthesis in rat liver, spleen, and testis in vitro
Paracetamol and phenolic antioxidants inhibit DNA synthesis in tissue slices with different effectiveness in the tissue tested
W.S. Wong, A.E.M. McLean (UK) 243–253
Lead intoxication impairs the generation of a delayed type hypersensitivity response
Lead exposure occurred though the drinking water
M.J. McCabe Jr., K.P. Singh, J.J. Reiners Jr. (USA) 255–264
Change in hepatic antioxidant defense system with liver injury development in rats with a single α-naphthylisothiocyanate intoxication
Enhanced lipid peroxidation may contribute to liver injury
Y. Ohta, M. Kongo, E. Sasaki, N. Harada (Japan) 265–275

Author index of volume 139 277
Subject index of volume 139 279–281
Contents of volume 139 283–284